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HIGHWAY INFORMATION SYSTEM

RELEASE 4.0

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HIGHWAY INFORMATION SYSTEM

RELEASE 4.Ø

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Prepared for the:

STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
PLANNING AND RESEARCH BUREAU

In cooperation with the:

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

The contents of this report reflect the views of Montana State University which is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Montana Department of Highways or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

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FOREWORD

This report is a portion of the documentation of Release 4.0 of the Highway Information System undertaken by the Department of Civil Engineering and Engineering Mechanics, Montana State University. The retrieval system has been evolving over the last several years under the sponsorship of the Planning and Research Bureau of the Montana Department of Highways with some assistance from the Highway Traffic Safety Division, Montana Department of Community Affairs.

Release 4.0 of the Highway Information System is documented in the following volumes:

Highway Information System Release 4.0: System Overview

Provides an introduction to the Highway Information System.

Highway Information System Release 4.0: Index

Provides an index to all manuals except the System Overview and Program Listings.

Highway Information System Release 4.0: User's Manual

Describes how to use the Highway Information System for retrieving information and for printing reports and summaries.

Highway Information System Release 4.0: Data Coding Manual

Describes the data card formats for entering data into the Highway Information System files.

Highway Information System Release 4.0: System Maintenance Manual

Provides information for performing scheduled system backups and file reorganizations and for allocating system files.

Highway Information System Release 4.0: Record Formats & Subroutines

Describes the internal record formats of the various files and provides calling sequences to subroutines. This manual is intended for persons writing new programs to add to the Highway Information System.

Highway Information System Release 4.0: Programming Details

Describes the existing programs and provides a guide to the program listings. This manual is intended for persons maintaining existing software in the Highway Information System.

Highway Information System Release 4.0: Program Listings

Contains computer-generated listings of all source programs of the Highway Information System.



Although the project was conceived, initiated, and primarily funded through the Planning and Research Bureau of the Montana Department of Highways, the development cost of selected portions of the system was borne by the Highway Traffic Safety Division of the Montana Department of Community Affairs.

In developing the system, the CE & EM Department has had the privilege of using an IBM OS/VSI 370/145 computer located at the Data Processing Bureau of the Montana Department of Highways in Helena. PL/I has been used for most of the programs because of its versatility and ease of use. BAL (assembler) has been used for most input-output modules and for other modules that require its increased capabilities and efficiency over PL/I.

The project could never have progressed to its current state without the continued and patient encouragement and assistance from the Planning and Research Bureau and the Data Processing Bureau of the Montana Department of Highways, and from the Highway Traffic Safety Division of the Department of Community Affairs.

The project conclusion was also hastened by the significant effort of other project personnel: Scott H. Danforth, R. Helene Knowlton, and Doug M. Geiger.



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This volume is an index to the Release 4.0 volumes of the Highway Information System. For each topic, a volume identification and a page number is provided. The volume identification codes are:

USER User's Manual

CODING Data Coding Manual

RECRM Record Formats and Subroutines

DETAIL Programming Details

MAINT System Maintenance Manual



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334: USER 7-14 DEF-MILES-BY-COUNTY PROGRAM - USE
335: DETAIL 13-6 DEFAULTS CONTROL BLOCK
336: MAINT 5-17 DEFENSE CROSS-REFERENCE - ALLOCATION
337: MAINT 4-9 DEFENSE CROSS-REFERENCE - BACKUP
338: CODING 11-3 DEFENSE CROSS-REFERENCE - DATA CARD FORMAT
339: CODING 11-2 DEFENSE CROSS-REFERENCE - LOADING
340: CODING 11-3 DEFENSE CROSS-REFERENCE - UPDATING
341: RECFM 12-2 DEFENSE CROSS-REFERENCE FILE - DEFPTN SUBRTN
342: RECFM 12-1 DEFENSE CROSS-REFERENCE FILE - DEFRII SUBRTN
343: RECFM 12-1 DEFENSE CROSS-REFERENCE FILE - RECORD FORMAT
344: DETAIL 3-8 DEFENSE-BDG-LIST PROGRAM - PROG DETAILS
345: USER 3-14 DEFENSE-BDG-LIST PROGRAM - USE
346: DETAIL 3-10 DEFENSE-MILAGE PROGRAM - PROG DETAILS

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347: USFR 3-16 DEFENSE-MILEAGE PROGRAM - USE
348: DFTAIL 3-14 DEFENSE-XREF PROGRAM - PROG DETAILS
349: USFR 11-3 DEFENSE-XREF PROGRAM - USE
350: USER 7-4 DEFICIENT MILEAGE IN SUFFICIENCY RATING FORMULA
351: RECFM 12-2 DEFPTN SUBROUTINE - CALLING SEQUENCE
352: DFTAIL 3-7 DEFPTN SUBROUTINE - PROG DETAILS
353: RECFM 12-1 DEFRTDI SUBROUTINE - CALLING SEQUENCE
354: DFTAIL 3-6 DEFRTDI SUBROUTINE - PROG DETAILS
355: DELETE FUNCTION - SEE UPDATE
356: RECFM 11-7 DELETE MEMBER FROM LIBRARY (MODPDS PROGRAM)
357: RECFM 3-10 DESIGN LOAD DERIVATION (BDGLOAD SUBRTN)
358: DFTAIL FILE - SEE ACCIDENT DFTAIL FILE
359: DFTAIL FILE - SEE ACCIDENT DIRECTORY FILE
360: DFTAIL FILE - SEE 'FILE - PARTITIONED'
361: MAINT 5-20 DISK STORAGE USE - SUMMARY
362: RECFM 9-7 DISTANCE BETWEEN TWO MILEPOINTS
363: DFTAIL 9-8 DISTB SUBROUTINE - IN TRMFILE LOAD MODULE
364: DFTAIL 9-6 DISTB SUBROUTINE - PROG DETAILS
365: RECFM 9-7 DISTQ AND DISTR SUBROUTINES - CALLING SEQUENCE
366: DFTAIL 9-8 DISTQ SUBROUTINE - IN TRMFILE LOAD MODULE
367: DFTAIL 9-6 DISTQ SUBROUTINE - PROG DETAILS
368: RECFM 1-16 DSA (PL/I DYNAMIC SAVE AREA)
369: DFTAIL FILE - SEE PRINT-DSCB
370: DFTAIL FILE - SEE GETDSCB
371: DFTAIL 13-5 DUMMY SAVEAREA FORMAT
372: RECFM 13-3 DUMP ENTRY POINT OF PRINT SUBROUTINE
373: DFTAIL 5-22 DUMP FILE=RCADLOG PROGRAM - PROG DETAILS
374: USER 5-9 DUMP FILE=RCADLOG PROGRAM - USE
375: DFTAIL 8-17 DUMP FILE=TRAFFIC PROGRAM - PROG DETAILS
376: USER 8-4 DUMP FILE=TRAFFIC PROGRAM - USE
377: RECFM 13-6 DUMPDD SUBROUTINE - CALLING SEQUENCE
378: DFTAIL 13-15 DUMPDD SUBROUTINE - PROG DETAILS
379: RECFM 1-16 DYNAMIC SAVE AREA (DSA) OF PL/I
380: RECFM 13-12 DYNAMIC SUBROUTINE - RETRIEVE (FFETCH SUBRTN)
381: RECFM 1-20 DYNAMIC SUBROUTINES
382: RECFM 1-3 D37 ABEND WHEN COMPILING OR LINKING
383: DFTAIL 2-21 EDIT FILE=ACCIDENT PROGRAM - PROG DETAILS
384: CODING 2-50 EDIT FILE=ACCIDENT PROGRAM - PROG DETAILS - FLOW TABLE
385: CODING 2-7 EDIT FILE=ACCIDENT PROGRAM - USE
386: CODING 5-8 EDIT FILE=RCADLOG - USE
387: DFTAIL 5-16 EDIT FILE=RCADLOG PROGRAM - PROG DETAILS
388: DFTAIL 6-9 EDIT FILE=SKID PROGRAM - PROG DETAILS
389: CODING 6-5 EDIT FILE=SKID PROGRAM - USE
390: RECFM 5-11 EDIT KEY AGAINST ROADLOG FILE (KEYRLG SUBRTN)
391: DFTAIL 2-36 EDIT TABLE - ACCIDENT - RECORD FORMAT
392: DFTAIL 6-16 EDIT TABLE - SKID - RECORD FORMAT
393: RECFM 11-42 EDIT TABLES
394: DFTAIL 14-22 EDIT-GRICtbl PROGRAM - PROG DETAILS
395: DFTAIL 10-4 EDITSGN SUBROUTINE - PROG DETAILS
396: USER 2-4 END-DATE PARAMETER
397: USER 1-11 END-MILEPOINT PARAMETER
398: RECFM 11-20 EQUIV TABLE - EQUIV-TABLE PROGRAM
399: RECFM 11-19 EQUIV TABLE - RECORD FORMAT
400: DFTAIL 11-22 EQUIV-TABLE PROGRAM - PROG DETAILS
401: RECFM 11-20 EQUIV-TABLE PROGRAM - USE
402: CODING 2-52 ERROR MESSAGES - ACCIDENT UPDATE PROGRAM
403: RECFM 2-15 ERROR MESSAGES - ACCRD
404: RECFM 3-7 ERROR MESSAGES - BDGRD

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405: RECFM	3-6	ERROR	MESSAGES	- RDGHD0
406: RECFM	11-10	ERRCR	MESSAGES	- BPAMFD
407: RECFM	11-11	ERRCR	MESSAGES	- BPAMWR
408: CODING	3-24	ERROF	MESSAGES	- BRIDGE UPDATE PROGRAM
409: RECFM	2-10	ERRCR	MESSAGES	- DACRDB
410: RECFM	2-8	ERROR	MESSAGES	- DACRDO
411: RECFM	9-8	ERROR	MESSAGES	- DISTQ/DISTB
412: RECFM	5-11	ERROR	MESSAGES	- KEYRLG
413: RECFM	9-6	ERROR	MESSAGES	- POINTQ/POINTB
414: CODING	4-14	ERROR	MESSAGES	- RAILROAD UPDATE PROGRAM
415: RECFM	5-8	ERRCR	MESSAGES	- RLGRD
416: RECFM	5-6	ERRCR	MESSAGES	- RLGRDQ
417: CODING	5-27	ERRCR	MESSAGES	- ROADLOG UPDATE PROGRAM
418: RECFM	4-5	ERROR	MESSAGES	- RFXFD
419: USER	12-8	ERRCR	MESSAGES	- SELECT
420: RECFM	6-4	ERRCR	MESSAGES	- SKDRD
421: RECFM	5-2	ERROR	MESSAGES	- SKDRDQ
422: RECFM	6-5	ERROR	MESSAGES	- SKDUPD
423: CODING	6-16	ERROR	MESSAGES	- SKID UPDATE PROGRAM
424: CODING	7-11	ERROR	MESSAGES	- SUFFICIENCY UPDATE PROGRAM
425: RECFM	7-5	ERRCR	MESSAGES	- SUFRD
426: RECFM	7-4	ERRCR	MESSAGES	- SUFRDQ
427: CODING	8-11	ERROR	MESSAGES	- TRAFFIC UPDATE PROGRAM
428: RECFM	8-7	ERROR	MESSAGES	- TRFRD
429: RECFM	8-5	ERROR	MESSAGES	- TRFRDQ
430: RECFM	9-4	ERRCR	MESSAGES	- TRMRDP
431: RECFM	9-3	ERROR	MESSAGES	- TRMRDQ
432: RECFM	8-11	ERROR	MESSAGES	- TRRRDQ
433: CODING	9-5	ERROR	MESSAGES	- TRUMILE UPDATE PROGRAM
434: CODING	10-24	ERROR	MESSAGES	- URBAN SIGN UPDATE PROGRAM
435: RECFM	2-12	ERROR	MESSAGES	- VACRDA
436: RECFM	8-9	ERROR	MESSAGES	- VEHMILE
437: USER	10-18	ERROR	MESSAGES	- 38-XXX
438: USER	1-10	EVEN-PAGE-POSITION PARAMETER		
439: RECFM	13-12	FETCH SUBROUTINE	- CALLING SEQUENCE	
440: DETAIL	13-11	FETCH SUBROUTINE	- PROG DETAILS	
441:		FILE	- INDEXED-SEQUENTIAL	- SEE 'FILE - IS'
442: MAINT	2-5	FILE	- IS	- ALLOCATION
443: MAINT	3-1	FILE	- IS	- CALC-BLKSIZE PROGRAM
444: MAINT	2-6	FILE	- IS	- CALCULATION OF BLOCK SIZE
445: MAINT	2-6	FILE	- IS	- CALCULATION OF CAPACITY
446: RECFM	13-11	FILE	- IS	- COPY TO SEQ FILE (BACKUP SUBRTN)
447: MAINT	2-5	FILE	- IS	- DESCRIPTION
448: MAINT	2-5	FILE	- IS	- JCL
449: RECFM	13-12	FILE	- IS	- LOAD FROM SEQ FILE (LOAD SUBPTN)
450: MAINT	3-2	FILE	- IS	- PRINT-DSCB PROGRAM
451: MAINT	2-7	FILE	- IS	- REORGANIZATION
452: MAINT	2-1	FILE	-	ORGANIZATIONS
453: MAINT	2-4	FILE	- PARTITIONED	- ALLOCATION
454: RECFM	11-9	FILE	- PARTITIONED	- BPAMRD/TABLRC READ SUBRTN
455: RECFM	11-10	FILE	- PARTITIONED	- BPAMWR/TABLWR LOAD SUBRTN
456: MAINT	2-4	FILE	- PARTITIONED	- CALCULATION OF BLKSIZE
457: MAINT	2-4	FILE	- PARTITIONED	- COMPRESS
458: RECFM	11-15	FILE	- PARTITIONED	- CRJE - LIST MEMBERS
459: RECFM	11-7	FILE	- PARTITIONED	- DELETE A MEMBER (MODPDS)
460: MAINT	2-4	FILE	- PARTITIONED	- DESCRIPTION
461: RECFM	11-12	FILE	- PARTITIONED	- DIRECTORY, READ ALPHABETICALLY
462: RECFM	11-12	FILE	- PARTITIONED	- FORMAT OF DIRECTORY ENTRIES

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463: PECFM 11-43 FILE - PARTITIONED - HIS.TABLES MEMBER NAMES
464: MAINT 2-4 FILE - PARTITIONED - JCL
465: PECFM 11-1 FILE - PARTITIONED - LIST A MEMBER (LISTPDS)
466: PECFM 11-14 FILE - PARTITIONED - LIST DIRECTORY (LIST-PDS-DIREC)
467: PECFM 11-15 FILE - PARTITIONED - LIST MEMBERS ALPHABETICALLY
468: PECFM 11-15 FILE - PARTITIONED - LIST-PDS-MEMBERS PROGRAM
469: PECFM 11-3 FILE - PARTITIONED - LOAD A MEMBER (LOADPDS)
470: PECFM 11-12 FILE - PARTITIONED - PDSDIR DIRECTORY READ SURRTN
471: PECFM 11-13 FILE - PARTITIONED - PDSRC READ SUBROUTINE
472: PECFM 11-13 FILE - PARTITIONED - READ MEMBERS ALPHABETICALLY
473: PECFM 11-7 FILE - PARTITIONED - PENAME A MEMBER (MODPDS)
474: PECFM 11-9 FILE - PARTITIONED - TABLEFD/BPAMFD READ SURRTN
475: PECFM 11-10 FILE - PARTITIONED - TAELWP/BPAMWR LCAP SURRTN
476: PECFM 11-5 FILE - PARTITIONED - UPDATE A MEMBER (UPDPDS)
477: MAINT 2-1 FILE - PS - ALLOCATION
478: MAINT 3-1 FILE - PS - CALC-PLKSIZE PROGRAM
479: MAINT 2-2 FILE - PS - CALCULATION OF BLOCK SIZE
480: MAINT 2-2 FILE - PS - CALCULATION OF CAPACITY
481: MAINT 3-4 FILE - PS - CHANGE PECORD LENGTH (COPY-SEQL-FILE)
482: PECFM 13-12 FILE - PS - COPY TO ISAM FILE (LOAD SURRTN)
483: MAINT 3-4 FILE - PS - COPY-SEQL-FILE PROGRAM
484: MAINT 2-1 FILE - PS - DESCRIPTION
485: MAINT 2-1 FILE - PS - JCL
486: PECFM 11-1 FILE - PS - LIST (LISTPDS)
487: PECFM 11-3 FILE - PS - LOAD (LOADPDS)
488: PECFM 11-5 FILE - PS - UPDATE (UPDPDS)
489: FILE - SEQUENTIAL - SEE 'FILE - PS'
490: MAINT 2-7 FILE - VSAM
491: DFTAIL 12-1 FILE ACCESS ROUTINES - OVERVIEW
492: PECFM 1-20 FILE ACCESS SUBROUTINES - OVERVIEW
493: PECFM 1-8 FILE PARAMETER - AS DECODED
494: PECFM 11-33 FILE REWRITE TABLES - LIST-FILE-TABLE PROGRAM
495: PECFM 11-34 FILE REWRITE TABLES - LOAD (BUILD-FILE-TABLE)
496: PECFM 11-32 FILE REWRITE TABLES - RECORD FORMAT
497: PECFM 11-35 FILE REWRITE TABLES - REWRITE SUBROUTINE
498: PECFM 11-34 FILE REWRITE TABLES - UPDATE-FILE-TABLE PROGRAM
499: PECFM 1-17 FIXED BINARY VARIABLES - LINKAGE CONVENTIONS
500: PECFM 1-18 FIXED DECIMAL VARIABLES - LINKAGE CONVENTIONS
501: DETAIL 5-12 FORHWY-SUMMARY PROGRAM - PROG DETAILS
502: USER 5-20 FORHWY-SUMMARY PROGRAM - USE
503: DETAIL 2-9 FORM-16 PROGRAM - PROG DETAILS
504: USER 2-24 FORM-16 PROGRAM - USE
505: DETAIL 11-16 FTLOAD SUBROUTINE - PROG DETAILS
506: DETAIL 11-16 FTSUM SUBROUTINE - PROG DETAILS
507: PECFM 1-8 FUNCTION PARAMETER - AS DECODED
508: CODING 5-17 FUNCTIONAL CLASS CODES - LOADLCG FILE
509: PECFM 11-23 GETCITY SUBROUTINE - CALLING SEQUENCE
510: DFTAIL 11-5 GETCITY SUBROUTINE - PROG DETAILS
511: PECFM 11-26 GETCNTY SUBROUTINE - CALLING SEQUENCE
512: DETAIL 11-25 GETCNTY SUBROUTINE - PROG DETAILS
513: PECFM 13-7 GETDATE SUBROUTINE - CALLING SEQUENCE
514: DETAIL 14-2 GETDATE SUBROUTINE - PROG DETAILS
515: PECFM 13-6 GETDAY SUBROUTINE - CALLING SEQUENCE
516: DETAIL 14-1 GETDAY SUBROUTINE - PROG DETAILS
517: PECFM 13-10 GETDSCB SUBROUTINE - CALLING SEQUENCE
518: DFTAIL 14-8 GETDSCB SUBROUTINE - PROG DETAILS
519: PECFM 13-10 GETJFCB SUBROUTINE - CALLING SEQUENCE
520: DETAIL 14-7 GETJFCB SUBROUTINE - PROG DETAILS

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521: DETAIL 13-15 GETLIST SUBROUTINE - PROG DETAILS
522: DETAIL 12-3 GETPARM SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
523: RECFM 11-32 GETSUFF SUBROUTINE - CALLING SEQUENCE
524: DETAIL 11-13 GETSUFF SUBROUTINE - PROG DETAILS
525: RECFM 13-13 GETTIOT SUBROUTINE - CALLING SEQUENCE
526: DETAIL 13-14 GETTIOT SUBROUTINE - PROG DETAILS
527: DETAIL 10-21 GPFAT-FALLS-LOAD PROGRAM - PROG DETAILS
528: MAINT 5-17 GRID TABLE - ALLOCATION
529: MAINT 4-C GRID TABLE - BACKUP
530: CODING 11-1 GRID TABLE - DATA CARE FORMAT
531: USR 11-1 GRID TABLE - GRIDTBL-SORT-&-LIST PROGRAM
532: USER 11-1 GRID TABLE - INTRODUCTION
533: USEP 11-1 GRID TABLE - LIST-GRID-TABLE PROGRAM
534: CODING 11-1 GRID TABLE - LOADING A NEW GRID TABLE
535: RECFM 12-1 GRID TABLE - RECORD FORMAT
536: CODING 11-2 GRID TABLE - UPDATING THE GRID TABLE
537: DETAIL 14-20 GRIDSEQ SUBROUTINE - PROG DETAILS
538: DETAIL 14-21 GRIDTRL-CODING-SHEET PROGRAM - PROG DETAILS
539: DETAIL 14-21 GRIDTRL-SORT-&-LIST PROGRAM - PROG DETAILS
540: USER 11-1 GRIDTBL-SORT-&-LIST PROGRAM - USF
541: DETAIL 13-2 HEADER - PROG DETAILS
542: DETAIL 2-21 HIGH-ACC-INTERSECTS PROGRAM - PROG DETAILS
543: USER 2-60 HIGH-ACC-INTERSECTS PROGRAM - USE
544: MAINT 5-20 HIS.LOADTST LIBRARY - ALLOCATION
545: MAINT 4-2 HIS.LPADTST LIBRARY - BACKUP
546: MAINT 4-13 HIS.LOADTST LIBRARY - COMPRESS
547: RECFM 1-7 HIS.LOADTST LIBRARY - DELETE MEMBERS
548: RECFM 1-2 HIS.LOADTST LIBRARY - DESCRIPTION
549: MAINT 5-20 HIS.OBJECT LIBRARY - ALLOCATION
550: MAINT 4-2 HIS.OBJECT LIBRARY - BACKUP
551: MAINT 4-13 HIS.OBJECT LIBRARY - COMPRESS
552: RECFM 1-7 HIS.OBJECT LIBRARY - DELETE MEMBERS
553: RECFM 1-1 HIS.OBJECT LIBRARY - DESCRIPTION
554: MAINT 5-20 HIS.REL4PTO LIBRARY - ALLOCATION
555: MAINT 4-2 HIS.REL4PTO LIBRARY - BACKUP
556: MAINT 4-13 HIS.REL4PTO LIBRARY - COMPRESS
557: RECFM 1-2 HIS.REL4PTO LIBRARY - DESCRIPTION
558: RECFM 1-6 HIS.SURRTN4 LIBRARY - ADD A MEMBER
559: MAINT 5-20 HIS.SURRTN4 LIBRARY - ALLOCATION
560: MAINT 4-2 HIS.SURRTN4 LIBRARY - BACKUP
561: MAINT 4-13 HIS.SURRTN4 LIBRARY - COMPRESS
562: RECFM 1-2 HIS.SURRTN4 LIBRARY - DESCRIPTION
563: HIS.TABLES - ALSO SEE TABLES
564: MAINT 5-20 HIS.TABLES LIBRARY - ALLOCATION
565: MAINT 4-2 HIS.TABLES LIBRARY - BACKUP
566: MAINT 4-13 HIS.TABLES LIBRARY - COMPRESS
567: RECFM 11-43 HIS.TABLES LIBRARY - MEMBER NAMES
568: DETAIL 14-16 HISCOPY PROGRAM - PROG DETAILS
569: RECFM 1-4 HISCVA CATALOGED PROCEDURE
570: RECFM 1-3 HISCVO CATALOGED PROCEDURE
571: RECFM 10-9 HISXSGNRC ++INCLUDE MODULE
572: RECFM 10-11 HISXUSNRC ++INCLUDE MODULE
573: USER 1-8 HISX133 CATALOGED PROCEDURE
574: RECFM 1-4 HIS4L CATALOGED PROCEDURE
575: RECFM 1-4 HIS4LREP CATALOGED PROCEDURE
576: RECFM 1-4 HIS4VA CATALOGED PROCEDURE
577: RECFM 1-3 HIS4VC CATALOGED PROCEDURE
578: RECFM 11-22 INCITY SUBROUTINE - CALLING SEQUENCE

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579: DETAIL 11-4 INCITY SUBROUTINE - PRCG DETAILS
580: RECFM 11-25 INCNTY SUBROUTINE - CALLING SEQUENCE
581: DETAIL 11-24 INCNTY SUBROUTINE - PRCG DETAILS
582: INDEXED-SEQUENTIAL - SEE FILE - IS
583: DETAIL 13-16 INITIALIZEP - PRCG DETAILS
584: RECFM 11-28 INPPOJ SUBROUTINE - CALLING SEQUENCE
585: DETAIL 11-8 INPPOJ SUBROUTINE - PRCG DETAILS
586: RECFM 11-36 INPTW SUBROUTINE - CALLING SEQUENCE
587: DETAIL 11-21 INPTW SUBROUTINE - PRCG DETAILS
588: INSERT FUNCTION - SEE UPDATE
589: RECFM 11-19 INSTR PARM TABLE - LIST-PARM-TABLE PROGRAM
590: RECFM 11-18 INSTR PARM TABLE - RECDPD FORMAT
591: RECFM 11-19 INSTR PARM TABLE - UPDATE-PARM-TABLE PROGRAM
592: RECFM 1-14 INSTRUCTION - PADM SEGMENT
593: RECFM 1-10 INSTRUCTION - PROGRAM SEGMENT
594: RECFM 13-2 INSTRUCTION - RETRIEVAL (SETINST)
595: RECFM 1-8 INSTRUCTION - SYSTEM SEGMENT
596: INSTRUCTION PARAMETER TABLE - SEE 'INSTR PARM TABLE'
597: INTERSECTION - SEE ACCIDENT INTERSECTION
598: INTERSECTION TABLE (MUNICIPAL) - SEE 'GRID TABLE'
599: INTERSECTN ACCIDENT ANALYSIS - SEE HIGH-ACC-INTERSECTNS
600: USFR 2-76 INTERSECTN,RURAL - ACCIDENT ANALYSIS
601: CODING 5-5 INTERSTATE LOOPS
602: CODING 2-10 INVENTORY ROUTE - FORMAT AS STORED IN BRIDGE FILE
603: RECFM 2-8 INVENTORY ROUTE DECOMPOSITION (BDGIRTE SUPRTN)
604: RECFM 2-9 INVENTORY ROUTE TO SIGNED ROUTE (BDGSRTE SUPRTN)
605: ISAM - SEE FILE - IS
606: JCL - SEE 'JOB CONTROL LANGUAGE'
607: JFCB - SEE PRINT-JFCB
608: USFR 1-4 JOB CARD
609: USFR 1-4 JOB CONTROL LANGUAGE - INTRODUCTION
610: RECFM 13-6 JOB FILE CONTROL BLOCK - SEE PRINT-JFCB
611: RECFM 13-6 JULIAN DAY FROM DATE (GETDAY SUBROUTINE)
612: JUNCTION - SEE INTERSECTN
613: DETAIL 8-1C KEY-LIST FILE=TRAFFIC PROGRAM - PRCG DETAILS
614: CODING 8-7 KEY-LIST FILE=TRAFFIC PROGRAM - USE
615: RECFM 5-11 KEYRLG SUBROUTINE - CALLING SEQUENCE
616: DETAIL 5-4 KEYRLG SUBROUTINE - PRCG DETAILS
617: CODING 3-9 LATITUDE - FORMAT AS STORED IN BRIDGE FILE
618: MAINT 5-20 LIBRARIES - ALLOCATION
619: MAINT 4-2 LIBPARIES - BACKUP
620: RECFM 1-1 LIBRARIES - DESCRIPTION
621: LIBRARY - SEE 'FILE - PARTITIONED'
622: RECFM 1-4 LINK-EDITOR PROCEDURES
623: RECFM 1-15 LINKAGE CONVENTIONS - PL/I AND ASSEMBLER
624: DETAIL 2-38 LIST FILE=ACCIDENT PROGRAM - PRCG DETAILS
625: USFR 2-10 LIST FILE=ACCIDENT PROGRAM - USE
626: DETAIL 2-20 LIST FILE=BRIDGE PROGRAM - PRCG DETAILS
627: USFR 3-4 LIST FILE=BRIDGE PROGRAM - USE
628: DETAIL 4-11 LIST FILE=RAILROAD PROGRAM - PRCG DETAILS
629: USFR 4-3 LIST FILE=RAILROAD PROGRAM - USE
630: DETAIL 5-23 LIST FILE=ROADLOG PROGRAM - PRCG DETAILS
631: USFR 5-6 LIST FILE=ROADLOG PROGRAM - USE
632: DETAIL 6-20 LIST FILE=SKID PROGRAM - PRCG DETAILS
633: USFR 6-5 LIST FILE=SKID PROGRAM - USE
634: DETAIL 7-22 LIST FILE=SUFFICIENCY PROGRAM - PRCG DETAILS
635: USFR 7-6 LIST FILE=SUFFICIENCY PROGRAM - USE
636: DETAIL 8-18 LIST FILE=TRAFFIC PROGRAM - PRCG DETAILS

Year	Population	Area (sq km)	Population Density (per sq km)
1950	1000000	10000	100
1960	1500000	10000	150
1970	2000000	10000	200
1980	2500000	10000	250
1990	3000000	10000	300
2000	3500000	10000	350
2010	4000000	10000	400
2020	4500000	10000	450
2030	5000000	10000	500
2040	5500000	10000	550
2050	6000000	10000	600
2060	6500000	10000	650
2070	7000000	10000	700
2080	7500000	10000	750
2090	8000000	10000	800
2100	8500000	10000	850

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637: USER 8-3 LIST FILE=TRAFFIC PROGRAM - USE
638: DETAIL 9-14 LIST FILE=TRUMILE PROGRAM - PROG DETAILS
639: USER 9-1 LIST FILE=TRUMILE PROGRAM - USE
640: DETAIL 10-20 LIST FILE=URBAN-SIGN PROGRAM - PROG DETAILS
641: USER 10-4 LIST FILE=URBAN-SIGN PROGRAM - USE
642: DETAIL 5-6 LIST-&SUM PROGRAM - PROG DETAILS
643: USER 5-12 LIST-&SUM PROGRAM - USE
644: DETAIL 2-27 LIST-ACC-BY-SECTN PROGRAM - PROG DETAILS
645: USER 2-69 LIST-ACC-BY-SECTN PROGRAM - USE
646: DETAIL 3-13 LIST-BDGREP PROGRAM - PROG DETAILS
647: USER 3-12 LIST-BDGREP PROGRAM - USE
648: DETAIL 7-6 LIST-BY-DISTRICT PROGRAM - PROG DETAILS
649: USER 7-12 LIST-BY-DISTRICT PROGRAM - USE
650: DETAIL 7-8 LIST-BY-RATING PROGRAM - PROG DETAILS
651: USER 7-10 LIST-BY-RATING PROGRAM - USE
652: DETAIL 7-6 LIST-BY-SECTION PROGRAM - PROG DETAILS
653: USER 7-10 LIST-BY-SECTION PROGRAM - USE
654: DETAIL 11-2 LIST-CITY-TABLE PROGRAM - PROG DETAILS
655: RECFM 11-21 LIST-CITY-TABLE PROGRAM - USE
656: DETAIL 11-23 LIST-COUNTY-TABLE PROGRAM - PROG DETAILS
657: RECFM 11-24 LIST-COUNTY-TABLE PROGRAM - USE
658: DETAIL 2-30 LIST-FA-ACC-DIREC PROGRAM - PROG DETAILS
659: USER 2-14 LIST-FA-ACC-DIREC PROGRAM - USE
660: DETAIL 11-13 LIST-FILE-TABLE PROGRAM - PROG DETAILS
661: RECFM 11-33 LIST-FILE-TABLE PROGRAM - USE
662: DETAIL 14-25 LIST-GRID-TABLE PROGRAM - PROG DETAILS
663: USER 11-1 LIST-GRID-TABLE PROGRAM - USE
664: DETAIL 5-24 LIST-ILoops PROGRAM - PROG DETAILS
665: USER 5-12 LIST-ILoops PROGRAM - USE
666: DETAIL 11-1C LIST-LOADMOD-TABLE PROGRAM - PROG DETAILS
667: RECFM 11-38 LIST-LOADMOD-TABLE PROGRAM - USE
668: DETAIL 11-18 LIST-PARM-TABLE PROGRAM - PROG DETAILS
669: RECFM 11-19 LIST-PARM-TABLE PROGRAM - USE
670: DETAIL 14-12 LIST-PDS-DIREC PROGRAM - PROG DETAILS
671: RECFM 11-14 LIST-PDS-DIREC PROGRAM - USE
672: DETAIL 14-13 LIST-PDS-MEMBERS PROGRAM - PROG DETAILS
673: RECFM 11-15 LIST-PDS-MEMBERS PROGRAM - USE
674: DETAIL 11-1 LIST-PROGRAM-TABLE PROGRAM - PROG DETAILS
675: RECFM 11-16 LIST-PROGRAM-TABLE PROGRAM - USE
676: DETAIL 11-7 LIST-PROJECT-TABLE PROGRAM - PROG DETAILS
677: RECFM 11-27 LIST-PROJECT-TABLE PROGRAM - USE
678: DETAIL 11-20 LIST-PTW-TABLE PROGRAM - PROG DETAILS
679: RECFM 11-36 LIST-PTW-TABLE PROGRAM - USE
680: DETAIL 12-21 LIST-SELECT-TABLE PROGRAM - PROG DETAILS
681: RECFM 11-41 LIST-SELECT-TABLE PROGRAM - USE
682: DETAIL 10-5 LIST-SIGNS-BY-STREET PROGRAM - PROG DETAILS
683: USER 10-6 LIST-SIGNS-BY-STREET PROGRAM - USE
684: DETAIL 11-20 LIST-SOURCE-XREF PROGRAM - PROG DETAILS
685: RECFM 11-39 LIST-SOURCE-XREF PROGRAM - USE
686: DETAIL 11-11 LIST-SUFF-TABLE PROGRAM - PROG DETAILS
687: RECFM 11-31 LIST-SUFF-TABLE PROGRAM - USE
688: DETAIL 7-15 LIST-SUFFREP PROGRAM - PROG DETAILS
689: USER 7-7 LIST-SUFFREP PROGRAM - USE
690: DETAIL 11-9 LIST-SURFACE-TABLE PROGRAM - PROG DETAILS
691: RECFM 11-29 LIST-SURFACE-TABLE PROGRAM - USE
692: DETAIL 8-10 LIST-TRAFFREP PROGRAM - PROG DETAILS
693: USER 8-6 LIST-TRAFFREP PROGRAM - USE
694: DETAIL 11-27 LISTPDS PROGRAM - PROG DETAILS

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695: FECFM 11-1 LISTPDS PROGRAM - USE
696: FECFM 1-4 LOAD MODULE - LINK-EDIT PROCEDURES
697: DETAIL A-1 LOAD MODULE - LIST OF NAMES
698: DETAIL B-1 LOAD MODULE - LOAD MODULE SUMMARY
699: FECFM 1-6 LOAD MODULE - REPLACE AN OBJECT MODULE
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806: USER 1-8 PPINT OPTIONS - OUTPUT TO TAPE/DISK
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853: CODING 4-5 RAILROAD FILE - DATA CARD FORMATS
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855: CODING 4-7 RAILROAD FILE - FORMAT OF KEY FIELD
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857: RECFM 4-5 RAILROAD FILE - RRXINB UPDATE SUBROUTINE
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861: RAILROAD FILE - UPDATE PGM - SEE 'UPDATE FILE=RAILROAD'
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866: DETAIL 5-16 RAMP LOCATION TABLE - RECORD FORMAT
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872: FECFM 2-7 RECORD FORMAT - ACCIDENT INSPECTN DIRECTORY FILE
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899: FECFM 12-3 RECORD FORMAT - SIGN CODE XREF
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910: FECFM 10-1 RECORD FORMAT - URBAN SIGN FILE
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913: FECFM 10-3 REMARK RECORD FORMAT - URBAN SIGN FILES
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919: DETAIL 2-36 REORGANIZE FILE=ACCIDENT PROGRAM - PROG DETAILS
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927: DETAIL 6-19 REORGANIZE FILE=SKID PROGRAM - PROG DETAILS
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929: DETAIL 7-21 REORGANIZE FILE=SUFFICIENCY PROGRAM - PROG DETAILS
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1005: DETAIL 2-19 RURAL-ACC-ANALYSIS PROGRAM - PROG DETAILS
1006: USER 2-54 RURAL-ACC-ANALYSIS PROGRAM - USE
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1013: FECFM 5-6 SAMPLE PROGRAM - RLGRDQ SUBROUTINE
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1051: CODING 11-5 SIGN CODE CROSS-REFERENCE - DATA CARD FORMAT
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1057: DFTAIL 10-12 SIGN-CODE-XREF PROGRAM - PROG DETAILS
1058: MAINT 4-10 SIGN-CODE-XREF PROGRAM - USE
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1063: DFTAIL 6-6 SKDCMPR SUBROUTINE - IN SKDFILE LOAD MODULE
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1065: FECFM 6-7 SKDCVT SUBROUTINE - CALLING SEQUENCE
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1067: FECFM 6-6 SKDDCB SUBROUTINE - CALLING SEQUENCE
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1071: DFTAIL 5-5 SKDFILE ADDRESS LIST
1072: FECFM 6-7 SKDCPT SUBROUTINE - CALLING SEQUENCE
1073: DFTAIL 6-7 SKDCPT SUBROUTINE - PROG DETAILS
1074: FECFM 5-3 SKDRD SUBROUTINE - CALLING SEQUENCE
1075: DFTAIL 6-6 SKDRD SUBROUTINE - PROG DETAILS
1076: DFTAIL 5-11 SKDFDC SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1077: FECFM 5-1 SKDRDQ SUBROUTINE - CALLING SEQUENCE
1078: DFTAIL 6-6 SKDRDQ SUBROUTINE - IN SKDFILE LOAD MODULE
1079: DFTAIL 6-1 SKDRDQ SUBROUTINE - PROG DETAILS
1080: FECFM 6-5 SKDUPD SUBROUTINE - CALLING SEQUENCE
1081: DFTAIL 6-6 SKDUPD SUBROUTINE - IN SKDFILE LOAD MODULE
1082: DFTAIL 5-3 SKDUPD SUBROUTINE - PROG DETAILS
1083: FECFM 6-4 SKDWRQ SUBROUTINE - CALLING SEQUENCE
1084: DFTAIL 6-6 SKDWRQ SUBROUTINE - IN SKDFILE LOAD MODULE
1085: DFTAIL 5-2 SKDWRQ SUBROUTINE - PROG DETAILS
1086: MAINT 5-10 SKID FILE - ALLOCATION
1087: MAINT 4-5 SKID FILE - BACKUP AND REORGANIZATION
1088: DFTAIL 6-4 SKID FILE - COMPRESSED RECORD FORMAT
1089: CODING 6-8 SKID FILE - DATA CARD FORMATS
1090: CODING 6-8 SKID FILE - DESCRIPTION OF DATA ELEMENTS
1091: SIGN - SEE 'EDIT FILE=SKID'
1092: DFTAIL 6-16 SKID FILE - EDIT TABLE
1093: CODING 5-1 SKID FILE - FILE DESCRIPTION
1094: CODING 5-8 SKID FILE - FORMAT OF KEY FIELD
1095: DFTAIL 6-16 SKID FILE - RAMP LOCATION TABLE - RECORD FORMAT
1096: FECFM 6-1 SKID FILE - RECORD FORMAT
1097: FECFM 5-3 SKID FILE - SKDRD READ SUBROUTINE
1098: FECFM 6-1 SKID FILE - SKDRDQ READ SUBROUTINE
1099: FECFM 5-5 SKID FILE - SKDUPD UPDATE SUBROUTINE
1100: FECFM 6-4 SKID FILE - SKDWRQ WRITE SUBROUTINE

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1101: SKID FILE - UPDATE PGM - SEE *UPDATE FILE=SKID*
1102: DETAIL 5-21 SKID-CARD-CONVERT PROGRAM - PROG DETAILS
1103: CODING 6-6 SKID-CARD-CONVERT PROGRAM - USE
1104: DFTAIL 6-9 SKID-LOAD PROGRAM - PROG DETAILS
1105: CODING 6-7 SKID-LOAD PROGRAM - USE
1106: CODING 6-6 SKID-TEST-01 PROGRAM - USE
1107: RECFM 1-2 SOURCE MODULE - COMPIRATION
1108: DETAIL C-1 SOURCE MODULE - CROSS-REFERENCE LISTING
1109: DETAIL A-1 SOURCE MODULE - LIST OF NAMES
1110: SOURCE MODULE LIBRARY - SEE PANVALET LIBRARY
1111: MAINT 3-7 SOURCE MODULE LISTINGS
1112: RECFM 1-14 SOURCE MODULE NAMING CONVENTIONS
1113: CODING 5-3 SPURS - AS CODED IN READLOG FILE
1114: CODING 8-2 SPURS - AS CODED IN TRAFFIC FILE
1115: RECFM 7-5 SREPSRT SUBROUTINE - CALLING SEQUENCE
1116: DETAIL 7-5 SRFPSSRT SUBROUTINE - PROG DETAILS
1117: USER 2-4 START-DATE PARAMETER
1118: DETAIL 5-12 START-MILEAGE-502 PROGRAM - PROG DETAILS
1119: USFP 1-11 START-MILEPOINT PARAMETER
1120: RECFM 13-8 STATE CODE TO STATE NAME CONVERSION (CNVSTAT)
1121: CODING 2-25 STATE CODES - ALPHABETICAL
1122: USER 5-23 STATE-MILEAGE-502 PROGRAM - USE
1123: DFTAIL 5-14 STATE-MILEAGE-505 PROGRAM - PROG DETAILS
1124: USER 5-25 STATE-MILEAGE-505 PROGRAM - USE
1125: DFTAIL 5-15 STATE-MILEAGE-506 PROGRAM - PROG DETAILS
1126: USER 5-25 STATE-MILEAGE-506 PROGRAM - USE
1127: RECFM 1-15 SUBROUTINES - LINKAGE CONVENTIONS
1128: SURRTN4 LIBRARY - SEE HIS.SURRTN4
1129: RECFM 1-14 SURSYSTEM NUMBERS
1130: RECFM 7-7 SUFCVT SUBROUTINE - CALLING SEQUENCE
1131: DETAIL 7-6 SUFCVT SUBROUTINE - PROG DETAILS
1132: DETAIL 7-18 SUFEDIT SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1133: MAINT 5-11 SUFFICIENCY FILE - ALLOCATION
1134: MAINT 4-6 SUFFICIENCY FILE - BACKUP AND REORGANIZATION
1135: CODING 7-5 SUFFICIENCY FILE - DATA CARD FORMAT
1136: CODING 7-5 SUFFICIENCY FILE - DESCRIPTION OF DATA ELEMENTS
1137: CODING 7-1 SUFFICIENCY FILE - FILE DESCRIPTION
1138: RECFM 7-1 SUFFICIENCY FILE - RECCPD FORMAT
1139: CODING 7-1 SUFFICIENCY FILE - SECTION BREAKS
1140: RECFM 7-5 SUFFICIENCY FILE - SREPSRT READ SUBROUTINE
1141: RECFM 7-6 SUFFICIENCY FILE - SUFINB UPDATE SUBROUTINE
1142: RECFM 7-4 SUFFICIENCY FILE - SUFRD READ SUBROUTINE
1143: RECFM 7-3 SUFFICIENCY FILE - SUFRDQ READ SUBROUTINE
1144: RECFM 7-6 SUFFICIENCY FILE - SUFRWB UPDATE SUBROUTINE
1145: SUFFICIENCY FILE - UPDATE PGM - SEE UPDATE
1146: USER 7-3 SUFFICIENCY REPORT - COMPUTATIONAL METHODOLOGY
1147: MAINT 5-12 SUFFICIENCY REPORT FILE - ALLOCATION
1148: MAINT 4-17 SUFFICIENCY REPORT FILE - CREATION
1149: RECFM 7-2 SUFFICIENCY REPORT FILE - RECORD FORMAT
1150: RECFM 7-5 SUFFICIENCY REPORT FILE - SFRRDO READ SUBROUTINE
1151: RECFM 7-6 SUFFICIENCY REPORT FILE - SFRWRQ WRITE SUBROUTINE
1152: RECFM 11-32 SUFFICIENCY TABLE - GETSUFF READ SUBROUTINE
1153: RECFM 11-31 SUFFICIENCY TABLE - LIST-SUFF-TABLE PROGRAM
1154: RECFM 11-30 SUFFICIENCY TABLE - RECORD FORMAT
1155: RECFM 11-21 SUFFICIENCY TABLE - UPDATE-SUFF-TABLE PROGRAM
1156: RECFM 7-6 SUFINB SUBROUTINE - CALLING SEQUENCE
1157: DETAIL 7-2 SUFINB SUBROUTINE - PROG DETAILS
1158: RECFM 7-4 SUFD SUBROUTINE - CALLING SEQUENCE

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1159: DETAIL 7-3 SUFRD SUBROUTINE - PROG DETAILS
1160: DETAIL 7-17 SUFRDC SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1161: RECFM 7-3 SUFRDQ SUBROUTINE - CALLING SEQUENCE
1162: DETAIL 7-1 SUFRDQ SUBROUTINE - PROG DETAILS
1163: RECFM 7-6 SUFRWR SUBROUTINE - CALLING SEQUENCE
1164: DETAIL 7-2 SUFRWR SUBROUTINE - PROG DETAILS
1165: DETAIL 2-9 SUM-RY-CONTR-CIRC PROGRAM - PROG DETAILS
1166: USER 2-22 SUM-BY-CONTR-CIRC PROGRAM - USE
1167: DETAIL 8-8 SUM-RY-COUNTY PROGRAM - PROG DETAILS
1168: USER 3-10 SUM-RY-COUNTY PROGRAM - USE
1169: DETAIL 2-8 SUM-BY-DAY-8-TIME PROGRAM - PROG DETAILS
1170: USER 2-21 SUM-BY-DAY-8-TIME PROGRAM - USE
1171: DETAIL 3-10 SUM-BY-DESIGN-LOAD PROGRAM - PROG DETAILS
1172: USER 3-16 SUM-BY-DESIGN-LOAD PROGRAM - USE
1173: DETAIL 2-11 SUM-BY-TRAFFICWAY PROGRAM - PROG DETAILS
1174: USER 2-35 SUM-BY-TRAFFICWAY PROGRAM - USE
1175: DETAIL 10-6 SUMMARY-BY-CONDITION PROGRAM - PROG DETAILS
1176: USER 10-10 SUMMARY-BY-CONDITION PROGRAM - USE
1177: DETAIL 10-11 SUMMARY-BY-DATE PROGRAM - PROG DETAILS
1178: USER 10-15 SUMMARY-BY-DATE PROGRAM - USE
1179: DETAIL 5-10 SUMMARY-BY-LOCATION PROGRAM - PROG DETAILS
1180: USER 5-18 SUMMARY-BY-LOCATION PROGRAM - USE
1181: DETAIL 5-7 SUMMARY-BY-ROUTES REPORT=ROADLOC PROGRAM - PROG DETAILS
1182: USER 5-18 SUMMARY-BY-ROUTES REPORT=ROADLOC PROGRAM - USE
1183: DETAIL 8-7 SUMMARY-BY-ROUTES REPORT=TRAFFIC PROGRAM - PROG DETAILS
1184: USER 8-8 SUMMARY-BY-ROUTES REPORT=TRAFFIC PROGRAM - USE
1185: DETAIL 10-8 SUMMARY-BY-SIGN-CODE PROGRAM - PROG DETAILS
1186: USER 10-16 SUMMARY-BY-SIGN-CODE PROGRAM - USE
1187: DETAIL 13-4 SUPERVISOR - PROG DETAILS
1188: DETAIL 13-1 SUPERVISOR - PROG DETAILS - FLOW OF CONTROL
1189: DETAIL 5-7 SURF-TYPE PROGRAM - PROG DETAILS
1190: USER 5-14 SURF-TYPE PROGRAM - USE
1191: RECFM 11-29 SURFACE TYPE CLASSIFICATIONS
1192: CODING 5-20 SURFACE TYPE CODES - READLOC FILE
1193: RECFM 11-30 SURFACE TYPE TABLE - CVTSURF SUBROUTINE
1194: RECFM 11-29 SURFACE TYPE TABLE - LIST-SURFACE-TABLE PROGRAM
1195: RECFM 11-29 SURFACE TYPE TABLE - RECODE FORMAT
1196: RECFM 11-29 SURFACE TYPE TABLE - UPDATE-SURFACE-TABLE PROGRAM
1197: RECFM 1-8 SYSTEM SEGMENT OF INSTRUCTION
1198: DETAIL 2-15 TA-1 PROGRAM - PROG DETAILS
1199: USER 2-64 TA-1 PROGRAM - USE
1200: USER 1-10 TABLEF-NUMBER PARAMETER
1201: TABLES - ACC-BY-SECT - SEE 'ACCIDENT-BY-SECTIONS'
1202: TABLES - CITY TABLE - SEE CITY TABLE
1203: TABLES - COUNTY TABLE - SEE COUNTY TABLE
1204: TABLES - EDIT TABLES - SEE 'EDIT TABLES'
1205: TABLES - EQUIV TABLE - SEE EQUIV TABLE
1206: RECFM 11-1 TABLES - FILE DESCRIPTION
1207: TABLES - FILE TABLES - SEE FILE REWRITE TABLES
1208: TABLES - GENERAL-PURPOSE MAINTENANCE - SEE LIBRARY
1209: TABLES - GRID TABLE - SEE GRID TABLE
1210: TABLES - INSTR PARM TBL - SEE 'INSTR PARM TABLE'
1211: TABLES - LOADMOD TABLE - SEE LOAD MODULE TABLE
1212: RECFM 11-43 TABLES - MEMBER NAMES
1213: RECFM 1-20 TABLES - OVERVIEW
1214: TABLES - PASSPARM TABLE - SEE 'PASSPARM TABLE'
1215: TABLES - PROGRAM TABLE - SEE 'PROGRAM TABLE'
1216: TABLES - PROJECT TABLE - SEE PROJECT CLASS TABLE

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1217: TABLES - PTW TABLE - SEE 'PTW TABLE'
1218: TABLES - REWRITE TABLES - SEE FILE REWRITE TABLES
1219: TABLES - SELECT TABLES - SEE SELECT TABLES
1220: TABLES - SUFFICIENCY TABLE - SEE 'SUFFICIENCY TABLE'
1221: TABLES - SUFF TYPE TBL - SEE 'SURFACE TYPE TABLE'
1222: TABLES LIBRARY - SEE HIS.TABLES
1223: DETAIL 13-12 TABLFD SUBROUTINE - PROG DETAILS
1224: RECFM 11-C TABLRD/BPAMRD SUBROUTINE - CALLING SEQUENCE
1225: DETAIL 13-13 TABLWR SUBROUTINE - PROG DETAILS
1226: RECFM 11-10 TABLWR/BPAMWR SUBROUTINE - CALLING SEQUENCE
1227: TASK INPUT-OUTPUT TABLE - SEE TIOT
1228: RECFM 11-37 TESTPTW SUBROUTINE - CALLING SEQUENCE
1229: DETAIL 11-22 TESTPTW SUBROUTINE - PROG DETAILS
1230: RECFM 13-13 TIOT - RETRIEVE (GETTIOT)
1231: USFR 1-10 TITLE-OD PARAMETER
1232: USFR 1-10 TOP-MARGIN PARAMETER
1233: TRAFFIC - KFY-LIST - SEE KFY-LIST
1234: TRAFFIC - UPDATE-BY-YEAR - SEE UPDATE-BY-YEAR
1235: RECFM 8-7 TRAFFIC FILE - ADT CALCULATIONS
1236: MAINT 5-13 TRAFFIC FILE - ALLOCATION
1237: MAINT 4-6 TRAFFIC FILE - BACKUP AND REORGANIZATION
1238: CODING 8-2 TRAFFIC FILE - COINCIDENT SECTIONS
1239: CODING 8-9 TRAFFIC FILE - DATA CARD FORMATS
1240: CODING 8-8 TRAFFIC FILE - DESCRIPTION OF DATA ELEMENTS
1241: CODING 8-1 TRAFFIC FILE - FILE DESCRIPTION
1242: CODING 8-4 TRAFFIC FILE - INTERPRETATION OF BLANK DATA
1243: RECFM 8-1 TRAFFIC FILE - RECORD FORMAT
1244: RECFM 8-8 TRAFFIC FILE - SECTION ADT CALCULATIONS
1245: CODING 8-1 TRAFFIC FILE - SECTION BREAKS
1246: CODING 8-2 TRAFFIC FILE - SECTION BREAKS - CONSTRAINTS ON MAJOR
1247: CODING 8-3 TRAFFIC FILE - SEQUENCE OF RECORDS IN FILE
1248: CODING 8-2 TRAFFIC FILE - SPURS AND LOOPS
1249: RECFM 8-11 TRAFFIC FILE - TRFINB UPDATE SUBROUTINE
1250: RECFM 8-5 TRAFFIC FILE - TRFRD READ SUBROUTINE
1251: RECFM 8-3 TRAFFIC FILE - TRFRDQ READ SUBROUTINE
1252: RECFM 8-12 TRAFFIC FILE - TRFRWB UPDATE SUBROUTINE
1253: RECFM 8-8 TRAFFIC FILE - UPDATE PGM - SEE 'UPDATE FILE=TRAFFIC'
1254: RECFM 8-8 TRAFFIC FILE - VEHICLE MILES CALCULATIONS
1255: MAINT 5-14 TRAFFIC REPORT FILE - ALLOCATION
1256: MAINT 4-17 TRAFFIC REPORT FILE - CREATION
1257: RECFM 8-2 TRAFFIC REPORT FILE - RECORD FORMAT
1258: RECFM 8-10 TRAFFIC REPORT FILE - TRFRDQ READ SUBROUTINE
1259: RECFM 8-12 TRAFFIC REPORT FILE - TRKWRQ WRITE SUBROUTINE
1260: DETAIL 8-7 TRAFFIC-BY-SECTIONS PROGRAM - PROG DETAILS
1261: USFR 8-6 TRAFFIC-BY-SECTIONS PROGRAM - USE
1262: RECFM 8-12 TRFCVT SUBROUTINE - CALLING SEQUENCE
1263: DETAIL 8-6 TRFCVT SUBROUTINE - PROG DETAILS
1264: DETAIL 8-12 TRFEDIT SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1265: RECFM 8-11 TRFINB SUBROUTINE - CALLING SEQUENCE
1266: DETAIL 8-2 TRFINB SUBROUTINE - PROG DETAILS
1267: RECFM 8-5 TRFRD SUBROUTINE - CALLING SEQUENCE
1268: DETAIL 8-3 TRFRD SUBROUTINE - PROG DETAILS
1269: DETAIL 8-12 TRFRDC SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1270: RECFM 8-3 TRFRDQ SUBROUTINE - CALLING SEQUENCE
1271: DETAIL 8-1 TRFRDQ SUBROUTINE - PROG DETAILS
1272: RECFM 8-12 TRFRWB SUBROUTINE - CALLING SEQUENCE
1273: DETAIL 8-2 TRFRWB SUBROUTINE - PROG DETAILS
1274: RECFM 8-10 TRMCVT SUBROUTINE - CALLING SEQUENCE

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1275: DETAIL 9-8	TRMCVT SUBROUTINE - PROG DETAILS
1276: DETAIL 9-10	TRMEDIT SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1277: DETAIL 9-7	TRMFILE ADDRESS LIST
1278: RECFM 9-8	TRMINB SUBROUTINE - CALLING SEQUENCE
1279: DETAIL 9-3	TRMINR SUBROUTINE - PROG DETAILS
1280: RECFM 9-2	TRMRDB SUBROUTINE - CALLING SEQUENCE
1281: DETAIL 9-9	TRMRDP SUBROUTINE - IN TRMFILE LOAD MODULE
1282: DETAIL 9-2	TRMRDQ SUBROUTINE - PROG DETAILS
1283: DETAIL 9-10	TRMRDC SUBROUTINE - CALLING SEQUENCE & PROG DETAILS
1284: RECFM 9-1	TRMRDQ SUBROUTINE - CALLING SEQUENCE
1285: DETAIL 9-8	TRMRDQ SUBROUTINE - IN TRMFILE LOAD MODULE
1286: DETAIL 9-1	TRMRDQ SUBROUTINE - PROG DETAILS
1287: RECFM 9-4	TRMRDP SUBROUTINE - CALLING SEQUENCE
1288: DETAIL 9-3	TRMRDR SUBROUTINE - PROG DETAILS
1289: RECFM 9-8	TRMRWB SUBROUTINE - CALLING SEQUENCE
1290: DETAIL 9-3	TRMRWB SUBROUTINE - PROG DETAILS
1291: RECFM 9-9	TRMRWO SUBROUTINE - CALLING SEQUENCE
1292: DETAIL 9-4	TRMRWO SUBROUTINE - PROG DETAILS
1293: RECFM 8-10	TRPRDQ SUBROUTINE - CALLING SEQUENCE
1294: DETAIL 8-4	TRPRDQ SUBROUTINE - PROG DETAILS
1295: RECFM 8-12	TRPRWO SUBROUTINE - CALLING SEQUENCE
1296: DETAIL 8-5	TRPRWO SUBROUTINE - PROG DETAILS
1297: RECFM 9-4	TRUE MILEAGE - CALCULATION FROM MILEPOINT
1298: RECFM 9-7	TRUE MILEAGE - CALCULATION OF DISTANCE BETWEEN MILEPOINT
1299:	TRUE MILEAGE FILE - SEE TRUMILE FILE
1300: MAINT 5-15	TRUMILE FILE - ALLOCATION
1301: MAINT 4-7	TRUMILE FILE - BACKUP AND REORGANIZATION
1302: RECFM 9-7	TRUMILE FILE - DISTQ AND DISTP SUBROUTINES
1303: CODING 9-1	TRUMILE FILE - FILE DESCRIPTION
1304: RECFM 9-4	TRUMILE FILE - POINTQ AND PRINTB SUBROUTINES
1305: RECFM 9-1	TRUMILE FILE - RECORD FORMAT
1306: RECFM 9-8	TRUMILE FILE - TRMINB UPDATE SUBROUTINE
1307: RECFM 9-3	TRUMILE FILE - TRMRDP READ SUBROUTINE
1308: RECFM 9-1	TRUMILE FILE - TRMRDQ READ SUBROUTINE
1309: RECFM 9-4	TRUMILE FILE - TRMRDR READ SUBROUTINE
1310: RECFM 9-8	TRUMILE FILE - TRMRWB UPDATE SUBROUTINE
1311: RECFM 9-9	TRUMILE FILE - TRMRWO UPDATE SUBROUTINE
1312:	TRUMILE FILE - UPDATE PGM - SEE 'UPDATE FILE=TRUMILE'
1313: CODING 2-6	UPDATE FILE=ACCIDENT FUNCTION=DELETE - USE
1314: CODING 2-1	UPDATE FILE=ACCIDENT FUNCTION=INSERT - USE
1315: CODING 2-5	UPDATE FILE=ACCIDENT FUNCTION=REWRITE - USE
1316: CODING 2-62	UPDATE FILE=ACCIDENT PROGRAM - BYPASSING EDIT CHECKS
1317: CODING 2-10	UPDATE FILE=ACCIDENT PROGRAM - DATA CARD FORMATS
1318: DETAIL 2-36	UPDATE FILE=ACCIDENT PROGRAM - EDIT TABLE
1319: CODING 2-52	UPDATE FILE=ACCIDENT PROGRAM - ERROR MESSAGES
1320: CODING 2-17	UPDATE FILE=ACCIDENT PROGRAM - LOCATION FIELD EDITS
1321: DETAIL 2-31	UPDATE FILE=ACCIDENT PROGRAM - PROG DETAILS
1322: CODING 2-46	UPDATE FILE=ACCIDENT PROGRAM - PROG DETAILS - FLOW TABLE
1323: CODING 3-3	UPDATE FILE=BRIDGE FUNCTION=DELETE - USE
1324: CODING 3-1	UPDATE FILE=BRIDGE FUNCTION=INSERT - USE
1325: CODING 3-2	UPDATE FILE=BRIDGE FUNCTION=NEW-KEY - USE
1326: CODING 3-2	UPDATE FILE=BRIDGE FUNCTION=REWRITE - USE
1327: CODING 3-4	UPDATE FILE=BRIDGE PROGRAM - DATA CARD FORMATS
1328: CODING 3-24	UPDATE FILE=BRIDGE PROGRAM - ERROR MESSAGES
1329: DETAIL 3-15	UPDATE FILE=BRIDGE PROGRAM - PROG DETAILS
1330: CODING 4-3	UPDATE FILE=RAILROAD FUNCTION=DELETE - USE
1331: CODING 4-1	UPDATE FILE=RAILROAD FUNCTION=INSERT - USE
1332: CODING 4-3	UPDATE FILE=RAILROAD FUNCTION=NEW-KEY - USE

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1323: CODING 4-2 UPDATE FILE=RAILROAD FUNCTION=REWRITE - USE
1324: CODING 4-5 UPDATE FILE=RAILROAD PROGRAM - DATA CARD FORMATS
1325: CODING 4-14 UPDATE FILE=RAILROAD PROGRAM - ERROR MESSAGES
1326: DETAIL 4-5 UPDATE FILE=RAILROAD PROGRAM - PROG DETAILS
1327: CODING 5-8 UPDATE FILE=ROADLOG FUNCTION=DELETE - USE
1328: CODING 5-5 UPDATE FILE=RCADLOG FUNCTION=INSERT - USE
1329: CODING 5-7 UPDATE FILE=RCADLOG FUNCTION=NEW-KFY - USE
1330: CODING 5-6 UPDATE FILE=ROADLOG FUNCTION=REWRITE - USE
1331: CODING 5-34 UPDATE FILE=ROADLOG PROGRAM - BYPASSING EDIT CHECKS
1332: CODING 5-10 UPDATE FILE=RCADLOG PROGRAM - DATA CARD FORMATS
1333: CODING 5-27 UPDATE FILE=RCADLOG PROGRAM - ERROR MESSAGES
1334: DETAIL 5-16 UPDATE FILE=RCADLOG PROGRAM - PROG DETAILS
1335: CODING 6-4 UPDATE FILE=SKID FUNCTION=DELETE - USE
1336: CODING 6-2 UPDATE FILE=SKID FUNCTION=INSERT - USE
1337: CODING 6-2 UPDATE FILE=SKID FUNCTION=NEW-KEY - USE
1338: CODING 6-3 UPDATE FILE=SKID FUNCTION=REWRITE - USE
1339: CODING 6-8 UPDATE FILE=SKID PROGRAM - DATA CARD FORMATS
1340: DETAIL 6-16 UPDATE FILE=SKID PROGRAM - EDIT TABLE
1341: CODING 6-16 UPDATE FILE=SKID PROGRAM - ERROR MESSAGES
1342: DETAIL 6-9 UPDATE FILE=SKID PROGRAM - PROG DETAILS
1343: DETAIL 7-16 UPDATE FILE=SKID PROGRAM - PROG DETAILS
1344: CODING 7-4 UPDATE FILE=SUFFICIENCY FUNCTION=DELETE - USE
1345: CODING 7-2 UPDATE FILE=SUFFICIENCY FUNCTION=INSERT - USE
1346: CODING 7-3 UPDATE FILE=SUFFICIENCY FUNCTION=NEW-KEY - USE
1347: CODING 7-2 UPDATE FILE=SUFFICIENCY FUNCTION=REWRITE - USE
1348: CODING 7-5 UPDATE FILE=SUFFICIENCY PROGRAM - DATA CARD FORMATS
1349: CODING 7-11 UPDATE FILE=SUFFICIENCY PROGRAM - ERROR MESSAGES
1350: CODING 8-7 UPDATE FILE=TRAFFIC FUNCTION=DELETE - USE
1351: CODING 8-5 UPDATE FILE=TRAFFIC FUNCTION=INSERT - USE
1352: CODING 8-6 UPDATE FILE=TRAFFIC FUNCTION=NEW-KFY - USE
1353: CODING 8-5 UPDATE FILE=TRAFFIC FUNCTION=REWRITE - USE
1354: CODING 8-9 UPDATE FILE=TRAFFIC PROGRAM - DATA CARD FORMATS
1355: CODING 8-11 UPDATE FILE=TRAFFIC PROGRAM - ERROR MESSAGES
1356: DETAIL 8-11 UPDATE FILE=TRAFFIC PROGRAM - PROG DETAILS
1357: CODING 9-2 UPDATE FILE=TRUMILE FUNCTION=DELETE - USE
1358: CODING 9-1 UPDATE FILE=TRUMILE FUNCTION=INSERT - USE
1359: CODING 9-2 UPDATE FILE=TRUMILE FUNCTION=REWRITE - USE
1360: CODING 9-3 UPDATE FILE=TRUMILE FUNCTION=SQL-REWRITE - USE
1361: CODING 9-5 UPDATE FILE=TRUMILE PROGRAM - EPROP MESSAGES
1362: DETAIL 9-9 UPDATE FILE=TRUMILE PROGRAM - PROG DETAILS
1363: CODING 10-23 UPDATE FILE=URBAN-SIGN FUNCTION=DELETE - USE
1364: CODING 10-19 UPDATE FILE=URBAN-SIGN FUNCTION=INSERT - USE
1365: CODING 10-22 UPDATE FILE=URBAN-SIGN FUNCTION=NEW-KEY - USE
1366: DETAIL 10-21 UPDATE FILE=URBAN-SIGN FUNCTION=REWRITE - USE
1367: CODING 10-6 UPDATE FILE=URBAN-SIGN PROGRAM - ASSEMBLY CARD RULES
1368: CODING 10-20 UPDATE FILE=URBAN-SIGN PROGRAM - BYPASSING EDIT CHECKS
1369: CODING 10-2 UPDATE FILE=URBAN-SIGN PROGRAM - DATA CARD FORMATS
1370: CODING 10-24 UPDATE FILE=URBAN-SIGN PROGRAM - ERROR MESSAGES
1371: DETAIL 10-12 UPDATE FILE=URBAN-SIGN PROGRAM - PROG DETAILS
1372: CODING 10-12 UPDATE FILE=URBAN-SIGN PROGRAM - SIGN CARD RULES
1373: DETAIL 8-14 UPDATE-BY-YEAR FILE=TRAFFIC PROGRAM - PROG DETAILS
1374: CODING 8-7 UPDATE-PY-YEAR FILE=TRAFFIC PROGRAM - USE
1375: DETAIL 11-3 UPDATE-CITY-TABLE PROGRAM - PROG DETAILS
1376: PECFM 11-22 UPDATE-CITY-TABLE PROGRAM - USE
1377: DETAIL 11-24 UPDATE-COUNTY-TABLE PROGRAM - PROG DETAILS
1378: RECFM 11-24 UPDATE-COUNTY-TABLE PROGRAM - USE
1379: DETAIL 11-14 UPDATE-FILE-TABLE PROGRAM - PROG DETAILS
1380: PECFM 11-34 UPDATE-FILE-TABLE PROGRAM - USE

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1391: UPDATE-GRID-TABLE - SEE BUILD-GRID-TABLE
1392: DETAIL 11-18 UPDATE-PARM-TABLE PROGRAM - PFCG DETAILS
1393: RECFM 11-1C UPDATE-PARM-TABLE PROGRAM - USE
1394: RECFM 11-16 UPDATE-PROGRAM-TABLE PROGRAM
1395: DETAIL 11-2 UPDATE-PROGRAM-TABLE PROGRAM - PFCG DETAILS
1396: DETAIL 11-8 UPDATE-PROJECT-TABLE PROGRAM - PFCG DETAILS
1397: RECFM 11-27 UPDATE-PROJECT-TABLE PROGRAM - USE
1398: DETAIL 11-12 UPDATE-SUFF-TABLE PROGRAM - PROG DETAILS
1399: RECFM 11-21 UPDATE-SUFF-TABLE PROGRAM - USE
1400: DETAIL 11-10 UPDATE-SURFACE-TABLE PROGRAM - PFCG DETAILS
1401: RECFM 11-29 UPDATE-SURFACE-TABLE PROGRAM - USE
1402: DETAIL 11-28 UPDPDS PROGRAM - PROG DETAILS
1403: RECFM 11-5 UPDPDS PROGRAM - USE
1404: CODING 10-6 URBAN SIGN FILE - ASSEMBLY CARD CODING RULES
1405: CODING 10-1 URBAN SIGN FILE - ASSEMBLY RECORDS
1406: CODING 10-2 URBAN SIGN FILE - CARD FORMATS
1407: CODING 10-4 URBAN STGN FILE - DESCRIPTION OF DATA ELEMENTS
1408: CODING 10-1 URBAN SIGN FILE - FILE DESCRIPTION
1409: MAINT 5-16 URBAN SIGN FILE - GREAT FALLS - ALLOCATION
1410: CODING 10-1 URBAN SIGN FILE - LOCATION METHOD
1411: CODING 10-1 URBAN SIGN FILE - ORDER OF RECORDS FOR AN ASSEMBLY
1412: CODING 10-23 URBAN SIGN FILE - PURGING OUTDATED INFORMATION
1413: CODING 10-1 URBAN SIGN FILE - REMARK RECORDS
1414: CODING 10-12 URBAN SIGN FILE - SIGN CARD CODING RULES
1415: CODING 10-15 URBAN SIGN FILE - SIGN CODE NUMBER & SUPPLEMENTAL CODE
1416: CODING 10-1 URBAN SIGN FILE - SIGN RECORDS
1417: URBAN SIGN FILE - UPDATE PGM - SEE UPDATE
1418: MAINT 4-8 URBAN SIGN FILES - BACKUP AND REORGANIZATION
1419: RECFM 10-14 URBAN SIGN FILES - CALCULATION OF SIGN ACE
1420: RECFM 10-5 URBAN STGN FILES - DATA ELEMENT NAMES
1421: RECFM 10-9 URBAN SIGN FILES - HISXSGNRC ++INCLUDE MODULE
1422: RECFM 10-11 URBAN SIGN FILES - HISXUSNRD ++INCLUDE MODULE
1423: RECFM 10-1 URBAN SIGN FILES - RECORD FORMATS
1424: RECFM 10-10 URBAN SIGN FILES - USNRD READ SUBROUTINE
1425: RECFM 10-8 URBAN SIGN FILES - USNRDQ READ SUBROUTINE
1426: RECFM 10-13 URBAN SIGN FILES - X AND Y COORDINATE CALCULATIONS
1427: RECFM 13-3 USEP-100 ABEND - DUMP ENTRY POINT OF PRINT
1428: RECFM 10-15 USNCVT SUBROUTINE - CALLING SEQUENCE
1429: RECFM 10-10 USNRD SUBROUTINE - CALLING SEQUENCE
1430: DETAIL 10-2 USNRD SUBROUTINE - PROG DETAILS
1431: RECFM 10-8 USNRDQ SUBROUTINE - CALLING SEQUENCE
1432: DETAIL 10-1 USNRDQ SUBROUTINE - PROG DETAILS
1433: RECFM 10-13 USNXY SUBROUTINE - CALLING SEQUENCE
1434: DETAIL 10-2 USNXY SUBROUTINE - PROG DETAILS
1435: RECFM 2-11 VACRDA SUBROUTINE - CALLING SEQUENCE
1436: DETAIL 2-6 VACRDA SUBROUTINE - IN ACCFILE LOAD MODULE
1437: DETAIL 2-3 VACRDA SUBROUTINE - PROG DETAILS
1438: RECFM 2-10 VACRDO SUBROUTINE - CALLING SEQUENCE
1439: DETAIL 2-6 VACRDO SUBROUTINE - IN ACCFILE LOAD MODULE
1440: DETAIL 2-2 VACRDO SUBROUTINE - PROG DETAILS
1441: VEHICLE FILE - SEE ACCIDENT VEHICLE FILE
1442: RECFM 8-8 VFHMILE SUBROUTINE - CALLING SEQUENCE
1443: DETAIL 8-5 VFHMILE SUBROUTINE - PROG DETAILS
1444: RECFM 8-9 VFHMILE SUBROUTINE - SAMPLE PROGRAM
1445: VSAM - SEE FILE - VSAM
1446: CODING 6-12 X-COORDINATE - RANGE
1447: CODING 6-12 Y-COORDINATE - RANGE

